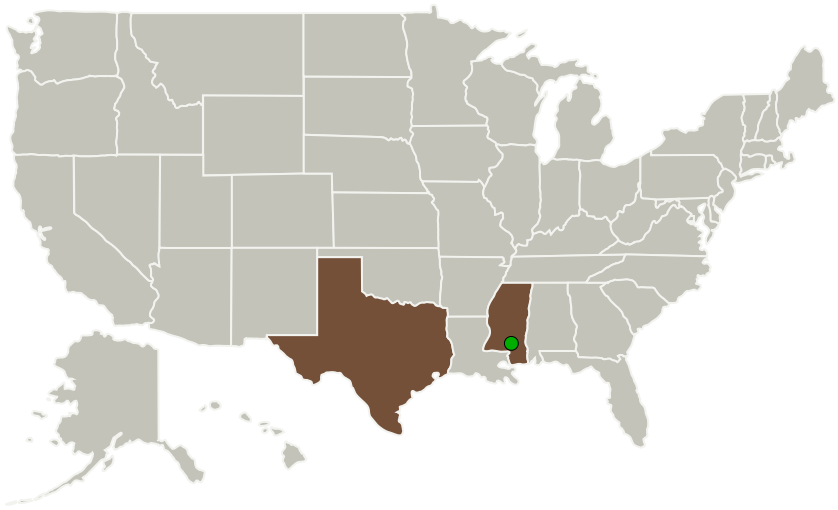
Cloud-Based Crowdsourced Semantic Social Mobile App for Disaster Response, Phase I

Completed Technology Project (2012 - 2012)

Project Introduction

For effective disaster response, software technology needs to provide several key features: enable real-time reporting of events, aggregate and analyze event reports in real-time, display event reports on maps (2D) and geobrowsers (3D). We propose to leverage several leading-edge software technologies and trends, as well as relevant existing open-source / accessible software platforms and mapping clients. The technologies are: cloud-computing, crowdsourcing, semantic analysis, social media, mobile computing, and geospatial visualization. Our primary innovation is an architectural approach for combining these technologies into one coherent platform and a mobile app software tool for disaster response.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
Vcrsoft, LLC	Lead Organization	Industry Minority-Owned Business	Arlington, Texas
Stennis Space Center(SSC)	Supporting Organization	NASA Center	Stennis Space Center, Mississippi

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Primary U.S. Work Locations	
Mississippi	Texas

Project Transitions

February 2012: Project Start

August 2012: Closed out

Closeout Documentation:

- Final Summary Chart*(https://techport.nasa.gov/file/138037)*

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

Vcrsoft, LLC

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

Program Manager:

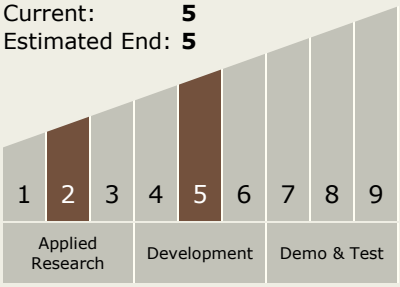
Carlos Torrez

Principal Investigator:

Vc Ramesh

Technology Maturity (TRL)

Start: **2**
Current: **5**
Estimated End: **5**



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Technology Areas

Primary:

- TX11 Software, Modeling, Simulation, and Information Processing
  - TX11.6 Ground Computing
    - TX11.6.5 Public Cloud Supercomputer

Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System